

## VPDES PERMIT APPLICATION ADDENDUM - SUPPLEMENTARY INFORMATION

### A. General Information

1. Entity to whom the permit is to be issued: Town of Blackstone

*Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This mayor may not be the facility or property owner.*

2. Classify the discharge as one of the following by checking the appropriate line:

X a. Existing discharge

\_\_\_ b. Proposed discharge

\_\_\_ c. Proposed expansion of an existing discharge

### B. Location

1. Is this facility located within city or town boundaries? NO

2. What is the tax map parcel number for the land where this facility is located? NA

3. For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities? NA No New Construction Planned.

4. What is the total acreage of the property on which the treatment plant is located? 11.0

5. Give the minimum elevation of the treatment plant site. 310 feet

6. Flood elevations of the treatment plant site:

Based on HUD insurance maps,  
this site is above the 100 year  
flood elevation.

7. Attach to the back of this application a location map( s) which may be traced from or is/are a production of a U.S. Geological Survey topographic quadrangle(s) or other appropriately scaled contour map(s). The location map(s) shall show the following:

- a. Treatment Plant
- b. Discharge Point
- c. Receiving waters
- d. Boundaries of the property on which the treatment plant is located, or to be located.
- e. Distance from the treatment plant to the nearest: (Indicate "not applicable" for any distance greater than 2000 feet)
  - i. Residence
  - ii. Distribution line for potable water supply
  - iii. Reservoir, well, or other source of water supply
  - iv. Recreational area
- v. Distance from the discharge point to the nearest: (Indicate "not applicable" for any distance greater than 15 miles)
  - i. Downstream community
  - ii. Upstream and downstream water intake points
  - iii. Shell fishing waters
  - iv. Wetlands area
  - v. Downstream impoundment
  - vi. Downstream recreational area

C. Discharge Description

1. Provide a brief description of the wastewater treatment scheme. Also, to the back of this application, attach a process flow diagram showing each process unit of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system.

This plant produces waste through backwashing of filters, rewashing filters, and cleaning of the sedimentation basins. This waste is discharged to the settling pond/lagoon to allow for the solids to settle and to accumulate in the pump pit. Under normal operations, all flows and solids will be pumped into the gravity sewer where it flows to the Towns WWTP. In the event of problems related to the primary system, waste would fill the basin and the supernatant would be dechlorinated and discharged as permitted. The WTP pumps the water (Raw) from the Fort Pickett Reservoir to the plants Earthation basin, then to the flash mix basin for chemical additions. Further treatment includes flocculation, sedimentation, filtration, chlorination, etc.

2. What is the design average flow of this facility? 0.50 MGD  
Industrial facilities:  
What is the max. 300-day avg. production levels (include units)? WTP is 4.5 MGD
3. In addition to the above design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? No

If "Yes," please specify the other flow ties (in MGD) or production levels:

*Please consider: Is your /facility's design flow considerably greater than your current flow? Do you plan to expand operations during the next five years?*

4. Nature of operations generating wastewater: Settling pond for WTP backwash, rewash, and basin cleaning. Occasional cleaning of clearwell.

0.0% of flow from domestic connections/sources

Number of private residences to be served by the wastewater treatment facilities:

☒ 0                      1-49                      50 or more

100 % of flow from non-domestic connections/sources

5. Mode of discharge: \_\_\_ Continuous ☒ Intermittent \_\_\_ Seasonal Describe frequency and duration of intermittent or seasonal discharges:
6. Identify the characteristics of the receiving stream at the point just above the facility's discharge point:  
☒ Permanent stream, never dry  
\_\_\_ Intermittent stream, usually flowing, sometimes dry  
\_\_\_ Ephemeral stream, wet-weather flow, often dry  
\_\_\_ Effluent- dependent stream, usually or always dry  
\_\_\_ Lake or pond at or below the discharge point  
\_\_\_ Other:

**D. Anticipated Phasing Schedule for Plant Capacity -Proposed/Expanding Discharges NA**

If this application is for a proposed or expanded discharge(s), complete the phasing schedule below beginning with the year in which construction completion is anticipated and progressing in increments of 5 years for 30 years thereafter.

Proposed Design Capacity: NA

Anticipated Date of Construction Completion: NA \_\_\_\_\_ Month/Year

Years after Completion	<u>Projected Flow (MGD)</u>
0	
5	
10	
15	
20	
25	
30	

**E. Interim Facilities**

Are the wastewater treatment facilities interim? (Designed for a useful life of less than 5 years)  
Y / NO

If "Yes," provide the estimated date to be discontinued (month,year) NA \_\_\_\_\_, and the name and location of the intended replacement facility.

**F. List of Materials Stored at Facility (i.e., chemicals, petroleum products)**

Material	Amount	<u>Stored Location</u>
Aluminum Sulfate	<45,000 pounds	Bermed Storage
Bulk Hydrated Lime	<45,000 pounds	Lime Silo
Zinc Orthophosphate	<1,200 pounds	3 <sup>rd</sup> Floor
Phosphate/Corrosion	<1,200 pounds	3 <sup>rd</sup> Floor
Potassium	<800 pounds	3 <sup>rd</sup> Floor
Perngangan	<10,000 pounds	3 <sup>rd</sup> Floor
Activated Carbon	<1,200 pounds	3 <sup>rd</sup> Floor
Polymers	<1,000 pounds	3 <sup>rd</sup> Floor
Calcium Hypochlorite	<1,000 pounds	3 <sup>rd</sup> Floor
Sodium Metabisulfate	<1,000 pounds	3 <sup>rd</sup> Floor